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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/599,308	09/25/2006	Michail Gougel	P/1830-23 V1455	6751		
OSTROLENK	7590 02/26/200 FABER GERB & SOI		EXAM	EXAMINER		
	E OF THE AMERICAS	3	PRICE, ELVIS O			
NEW YORK,	NY 100368403		ART UNIT	PAPER NUMBER		
			1621			
			MAIL DATE	DELIVERY MODE		
			02/26/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/599,308 GOUGEL ET AL. Office Action Summary Evaminor

cincorionon cummary	Examiner	Art Unit					
	ELVIS O. PRICE	1621					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 GPR 1.1 after SIX (6) MCNITHS from the mailing date of the communication. - Failure to reply within the sort or extended period for reply will by statute. Any reply received by the Office later than three months after the mailing earned patient form adjustment. See 37 GPR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-6 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 1 and 3-5 is/are rejected.							
7)⊠ Claim(s) 2 and 6 is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
10)⊠ The drawing(s) filed on 25 September 2006 is/a		ted to by the Eval	miner				
Applicant may not request that any objection to the	·- · · · ·	•					
Replacement drawing sheet(s) including the correct			FR 1.121(d).				
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 119(a)	►(d) or (f)					
a) ⊠ All b) □ Some * c) □ None of:	priority under 50 0.0.0. § 110(a)	r(a) or (i).					
1.☐ Certified copies of the priority documents	s have been received						
2.☐ Certified copies of the priority documents		on No					
Copies of the certified copies of the prior			Stage				
application from the International Bureau	•	o in tino riditoria.	Olago				
* See the attached detailed Office action for a list		d.					
	,						
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTD/S5r08) Paper No(s)/Mail Date 9/25/06; 11/16/06.	atert.Application						
	6) Other:						

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DETAILED ACTION

Claims 1-6 are pending in the application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kallenbach et al. {US Pat. 5,427,689}.

Kallenbach et al. teach a process for separating (extracting) polar substances, such as ethanol, from a solution using an aluminum-zirconium borate salt to adsorb the ethanol from the said solution (see solution b in Example II and Table I). The difference between the presently claimed invention and what is taught by the Kallenbach et al. reference is that the Kallenbach et al. reference does not exemplify heating the salt to release the adsorbed ethanol. However, Kallenbach et al. does teach that absorbed

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methanol can be quantitatively recovered from the aluminum-zirconium borate salt by heating (see Col. 5, lines 1-5).

Thus, it would have been prima facie obvious to one having ordinary skill in the art, in view of the Kallenbach et al. reference, to extract ethanol from a solution as presently claimed because Kallenbach et al. teach a similar process for removing ethanol, inter-alia, from solution by way of contacting the ethanol solution with an aluminum-zirconium borate salt. The particulars of present claims 4 and 5 would have been obvious because, given the teachings of the Kallenbach et al. process, it would not be unreasonable for persons having ordinary skill in the art to envisage removal of ethanol from a mash and/or conducting a flow process of sensing the ethanol content before and after it passes through the salt bed upon removal of the ethanol from the solution.

Although Kallenbach et al. does not exemplify heating the salt to release the ethanol, one having ordinary skill in the art would have been motivated to recover the ethanol from the salt by way of heating considering the Kallenbach et al. teach that similar alcohol, methanol, can be quantitatively recovered as such from the salt. Therefore, the presently claimed invention would have been obvious to one having ordinary skill in the art.

Allowable Subject Matter

Claims 2 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of Application/Control Number: 10/599,308

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the base claim and any intervening claims. The prior art of record does not teach or fairly suggest using Mg3(PO4)2 as a salt for removing ethanol from solution.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELVIS O. PRICE whose telephone number is (571)272-0644. The examiner can normally be reached on 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne L. Eyler can be reached on 571 272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvis O. Price/ Primary Examiner, Art Unit 1621